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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/580,665	05/26/2000	Ian Crayford	34729/JFO/B600	8203

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SQUIRE, SANDERS & DEMPSEY L.L.P.
14TH FLOOR
8000 TOWERS CRESCENT
TYSONS CORNER, VA 22182

EXAMINER

BAROT, BHARAT

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 08/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/580,665

Applicant(s)

Ian Crayford et al.

Examiner

Bharat Barot

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on May 26, 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 05 6) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-14 and 21-40 are rejected under 35 U.S.C. 102(b) as being anticipated by Kristol et al (U.S. Patent No. 5,541,927).

Kristol's patent meets all the limitations for the claims 1-14 and 21-40 recited in the claimed invention.

3. As to claim 1, Kristol et al disclose a network hub in a communication network comprising a server, the server pushing status information to a client (figures 3-4 and 6; column 4 line 31 to column 5 line 12; and column 6 lines 14-19).

4. As to claims 2-5, Kristol et al disclose that the server unicasts the information, transmits the information to a plurality of clients, broadcasts the information, and multicasts the information (column 3 lines 53-59).

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5. As to claims 6-7, Kristol et al disclose that the hub comprises one of a switch, a repeater, a bridge, a router, a gateway, and a hybrid thereof (figure 3; and column 4 lines 31-49); and the network hub comprises one of an OSI Layer 2 network switch, an OSI Layer 3 network switch, and a hybrid thereof (figure 2; and column 3 lines 24-52).

6. As to claim 8, Kristol et al disclose that the hub is devoid of a microprocessor (column 3 lines 38-42).

7. As to claims 9-10, Kristol et al disclose that the information comprises a predefined status field; and the predefined status field comprises a push transmission field (figure 6; and column 6 lines 14-19).

8. As to claims 11-13, Kristol et al disclose that the hub further comprising a plurality of ports; the operational information comprises a predefined status field; and the predefined status field corresponds to at least one of the plurality of ports (figures 3-4 and 6; column 4 line 31 to column 5 line 12; and column 6 lines 14-19).

9. As to claim 14, Kristol et al disclose that the hub further comprising memory register for storing the information therein (column 7 lines 33-67).

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10. As to claim 21-22, Kristol et al disclose a communication apparatus, comprising: a network information table storing network information from the network information receiver; a network information transmitter selectively push transmitting the network information in the network information table; a network information receiver, operably coupled with a communication network and the network information table, receiving network information; and a network operations analyzer analyzing the networking information in the network information table and producing information of a state of the network (figures 3-4 and 6; column 4 line 31 to column 6 line 2; and column 6 line 14 to column 7 line 67).

11. As to claim 23-26, Kristol et al disclose that the apparatus comprising a hub, a switch, a repeater, a bridge, a router, a gateway, and a hybrid thereof, comprising a plurality of ports coupled to the network information transmitter; and comprising one of an OSI Layer 2 network switch, an OSI Layer 3 network switch, and a hybrid thereof (figures 2-4; column 3 lines 24-52; and column 4 line 31 to column 5 line 12).

12. As to claims 27-28, it would have been obvious matter of design choice to select the number of poarts coupled to the network information transmitter for increased the utilization of the communication apparatus.

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13. As to claim 29-30, Kristol et al disclose that the apparatus further comprising a PHY and a switching interface, each of the network information receiver, the network information table, and the at least one of the network information transmitter and the network information detector being integrated into the network hub; and the network hub comprises one of a switch, a repeater, a bridge, a router, a gateway, and a hybrid thereof (figures 3-4 and 6; column 4 line 31 to column 6 line 2; and column 6 line 14 to column 7 line 67).

14. As to claims 31-40, they are also rejected for the same reasons set forth to rejecting claims 21-30 above.

Claim Rejections - 35 USC § 103(a)

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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16. Claims 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kristol et al (U.S. Patent No. 5,541,927) in view of Fujino et al (U.S. Patent No. 5,651,006).

17. As to claims 15-20, Kristol et al do not disclose that the information is a management information base (MIB) statistic.

Fujino et al disclose that the information is a management information base (MIB) statistic; and further comprising a MIB engine, a switching fabric and a transceiver (PHY) integrally contained therein, an address resolution table integrally contained therein, and a MIB engine for pushing the predefined status field (abstract; figure 2; column 3 lines 19-23 and 39-43; column 6 lines 5-34; column 7 lines 1-53; and column 22 lines 18-67).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Fujino et al with the network hub of Kristol et al for pushing status information to a client because it would have provided economically efficient, secure, and balanced communication between source device and destination device.

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Contact Information

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Bharat Barot** whose telephone number is **(703) 305-4092**. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **An, Meng-Ai**, can be reached at **(703) 305-9678**. The fax phone numbers for examiner's Art Unit OR Group are **After final response (703) 746-7238, Official response (703) 746-7239, and Unofficial/Draft response (703) 746-7240**.

Any inquiry of general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is **(703) 305-3900**.

Patent Examiner Bharat Barot

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August 13, 2003

Bharat Barot

**BHARAT BAROT
PRIMARY EXAMINER**